

1/22

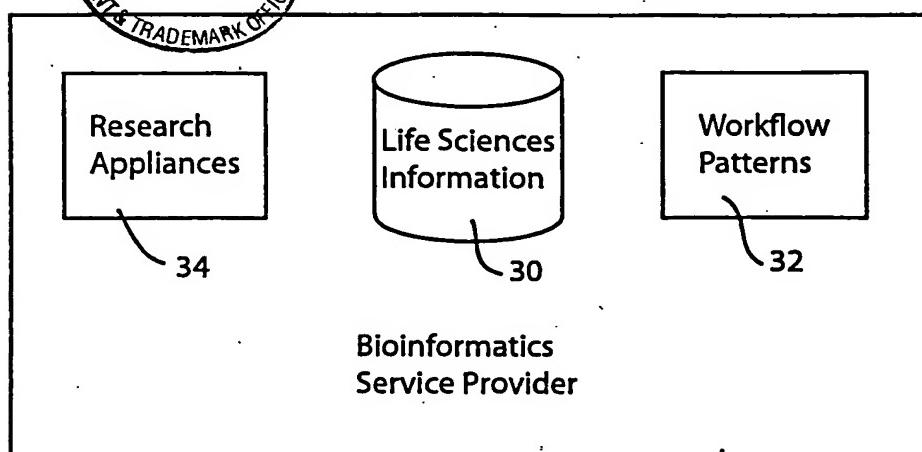
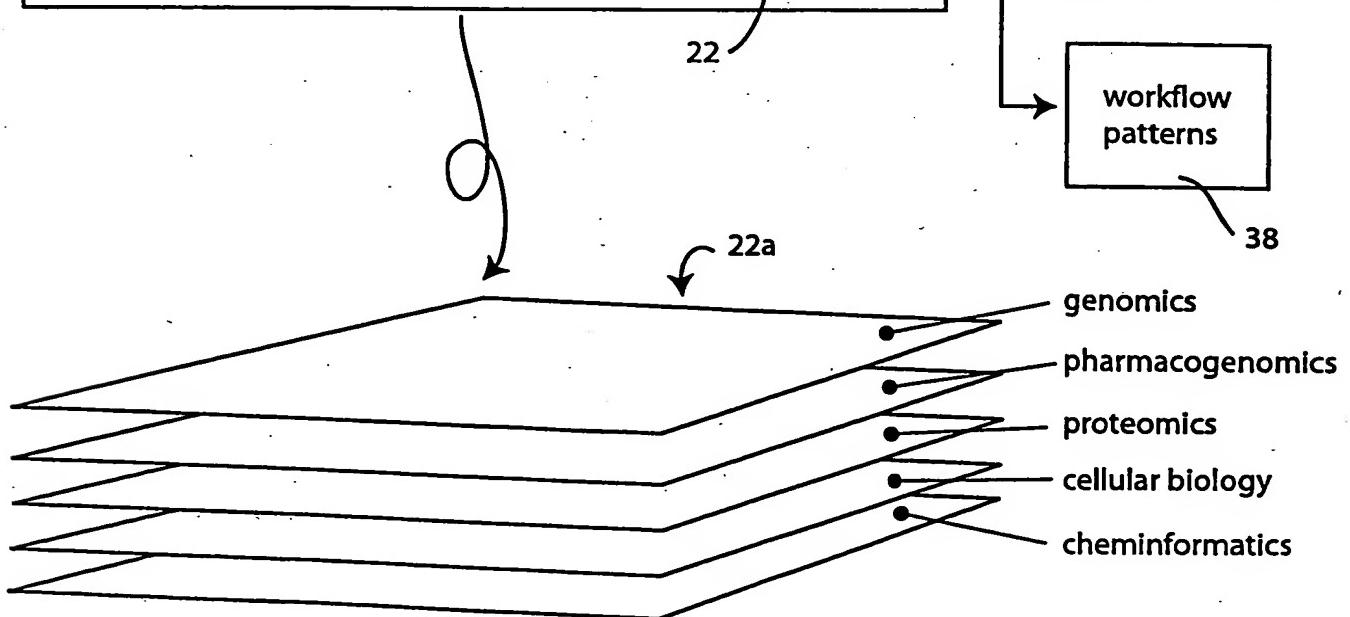
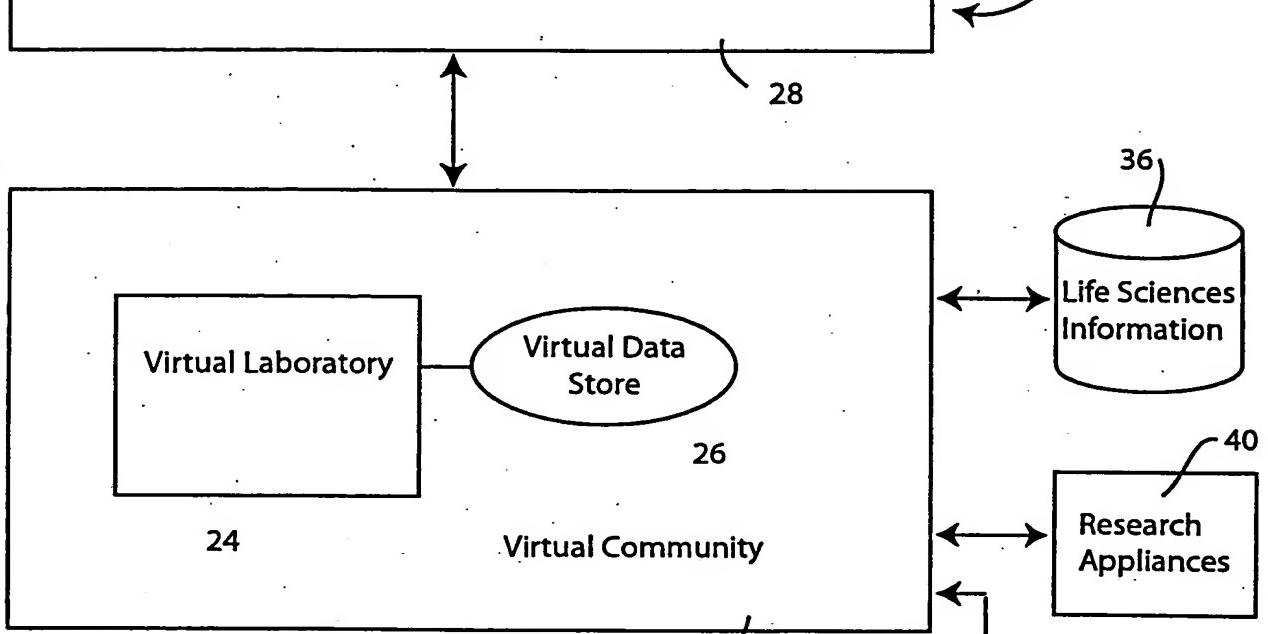


Fig. 1



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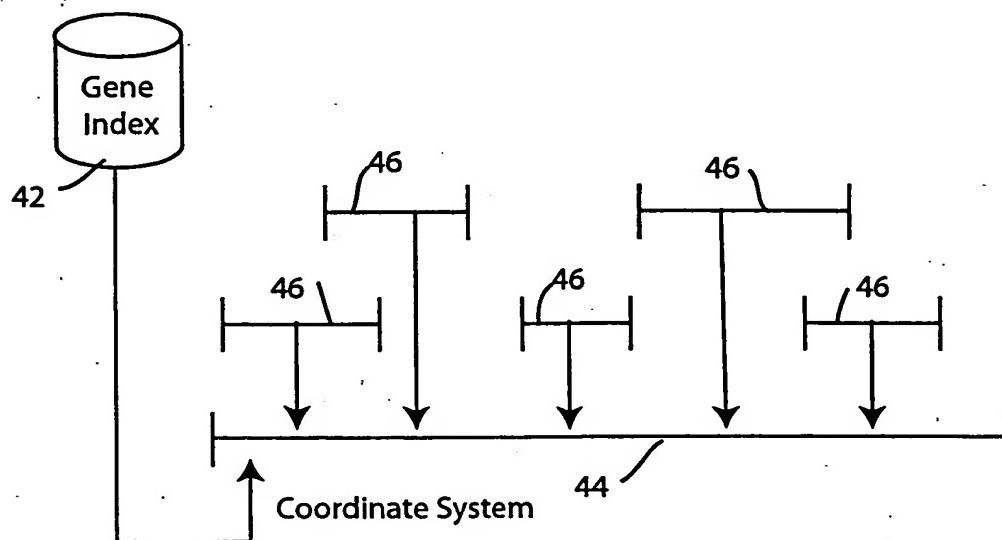


Fig. 2

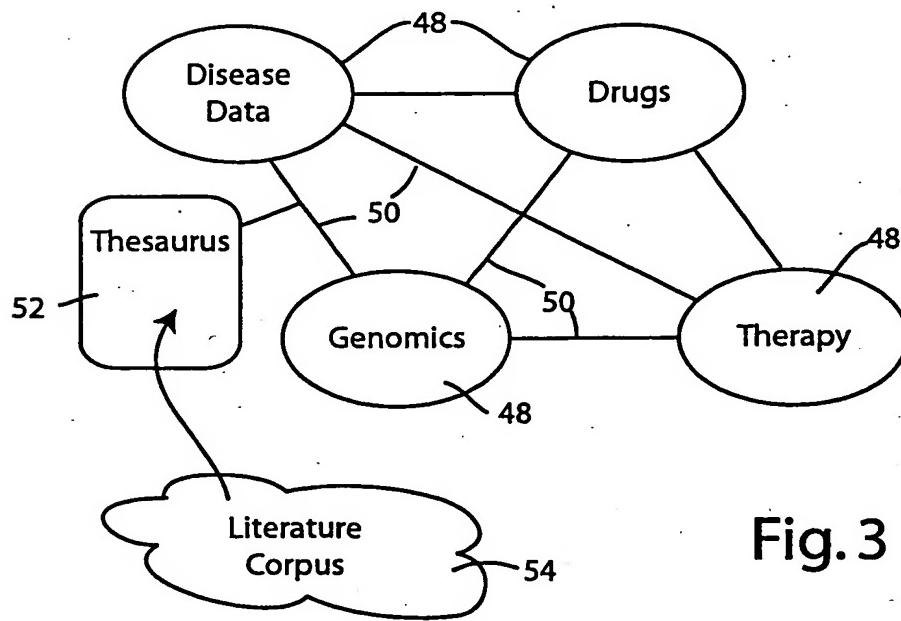


Fig. 3

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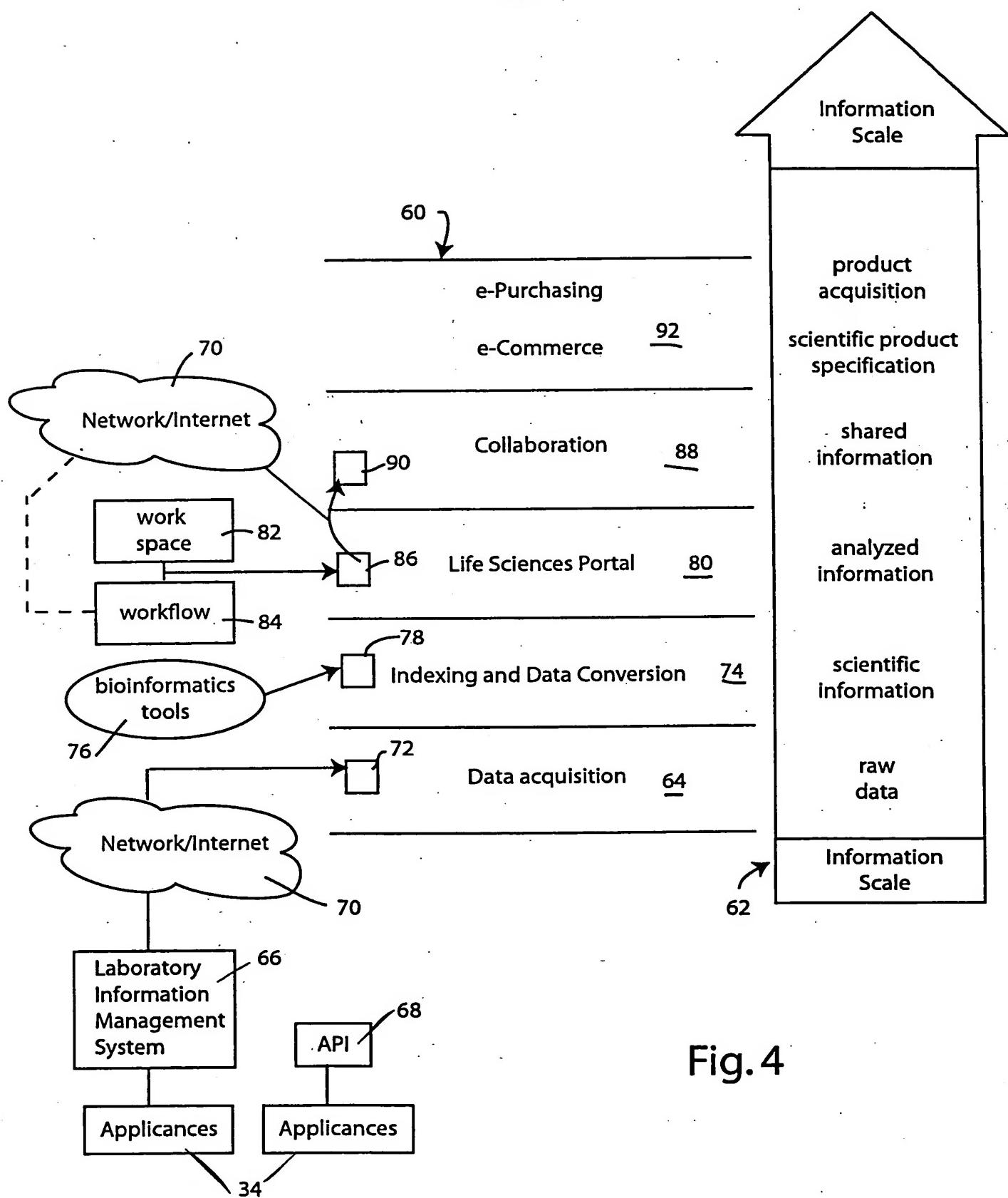


Fig. 4

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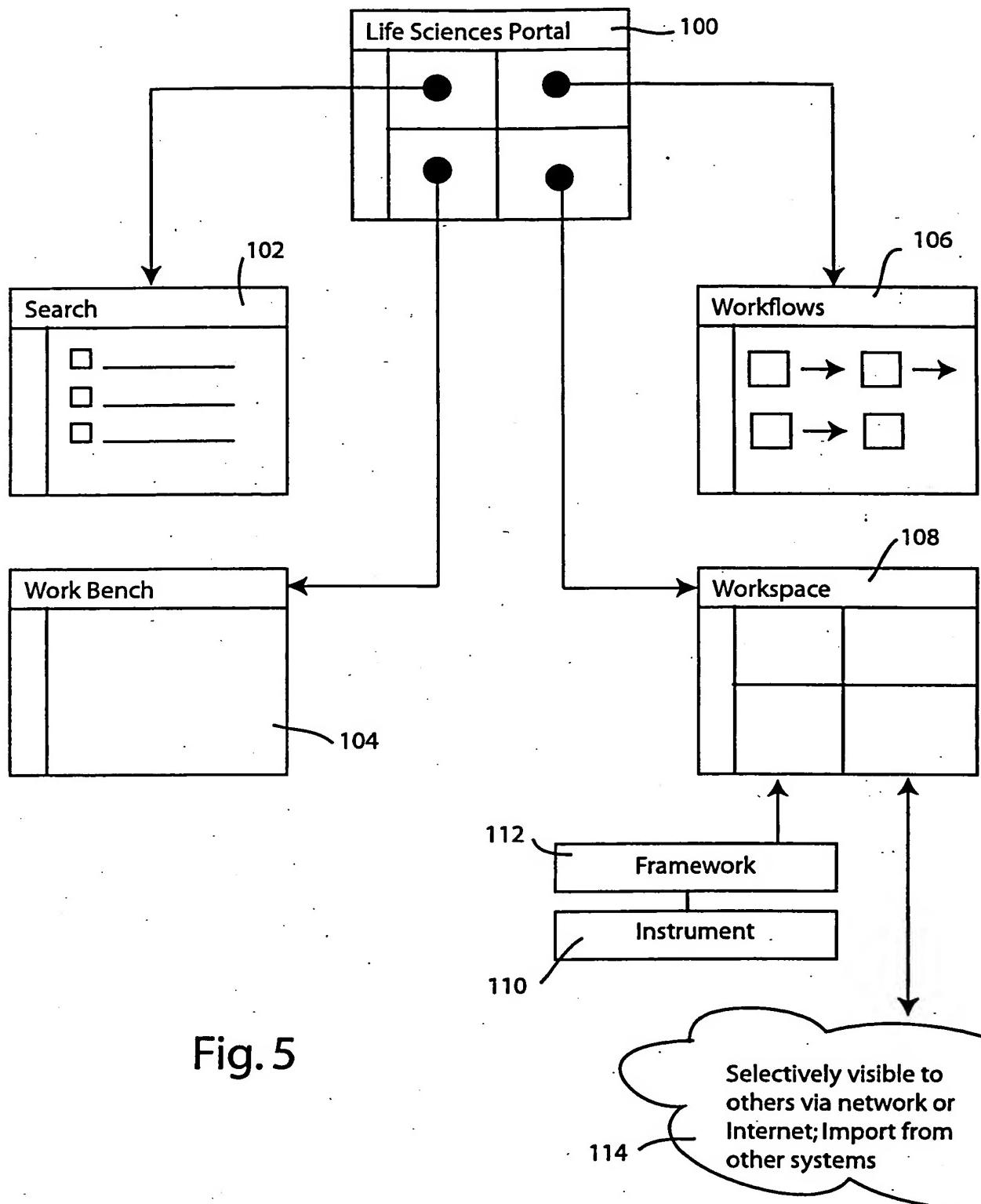
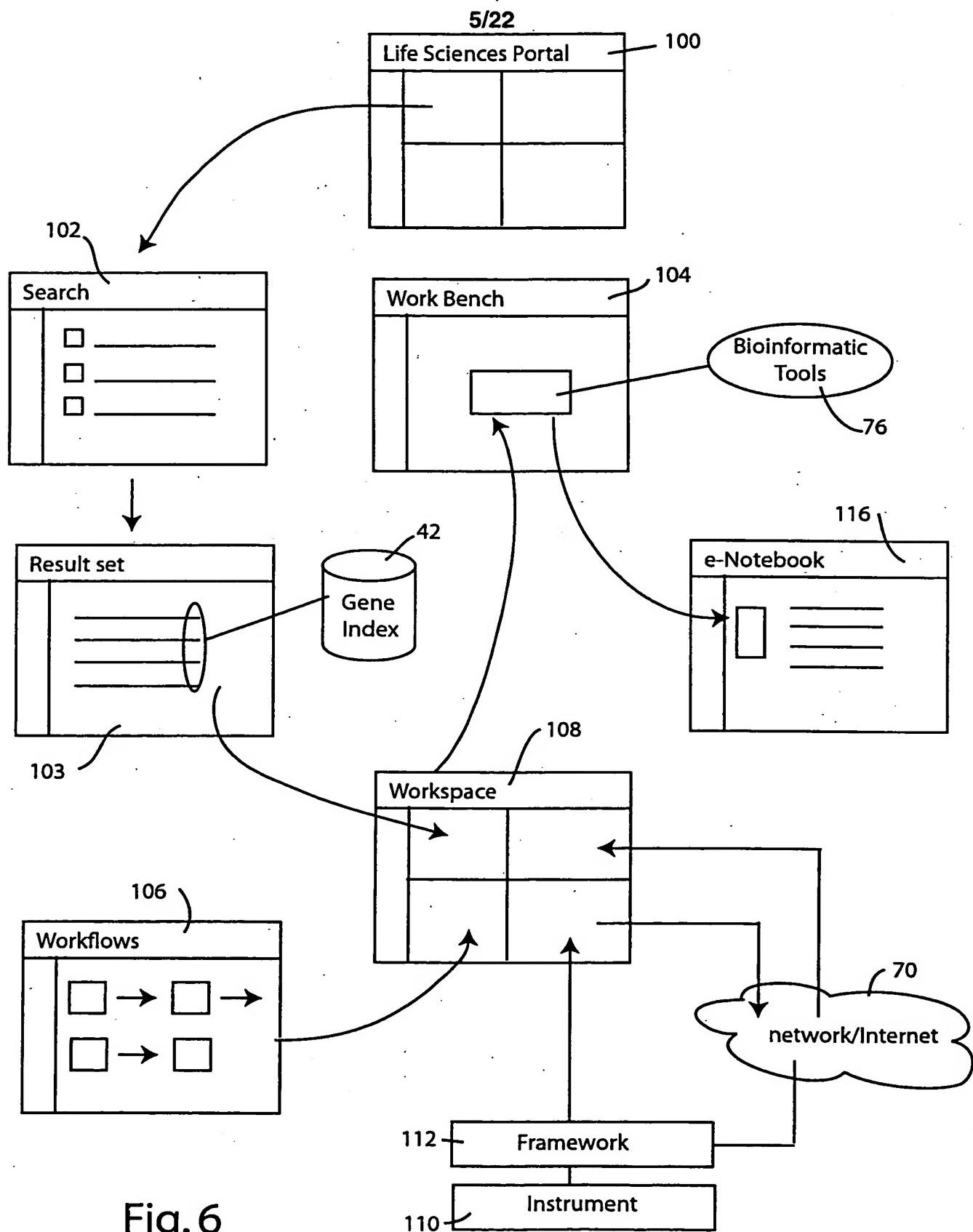


Fig. 5



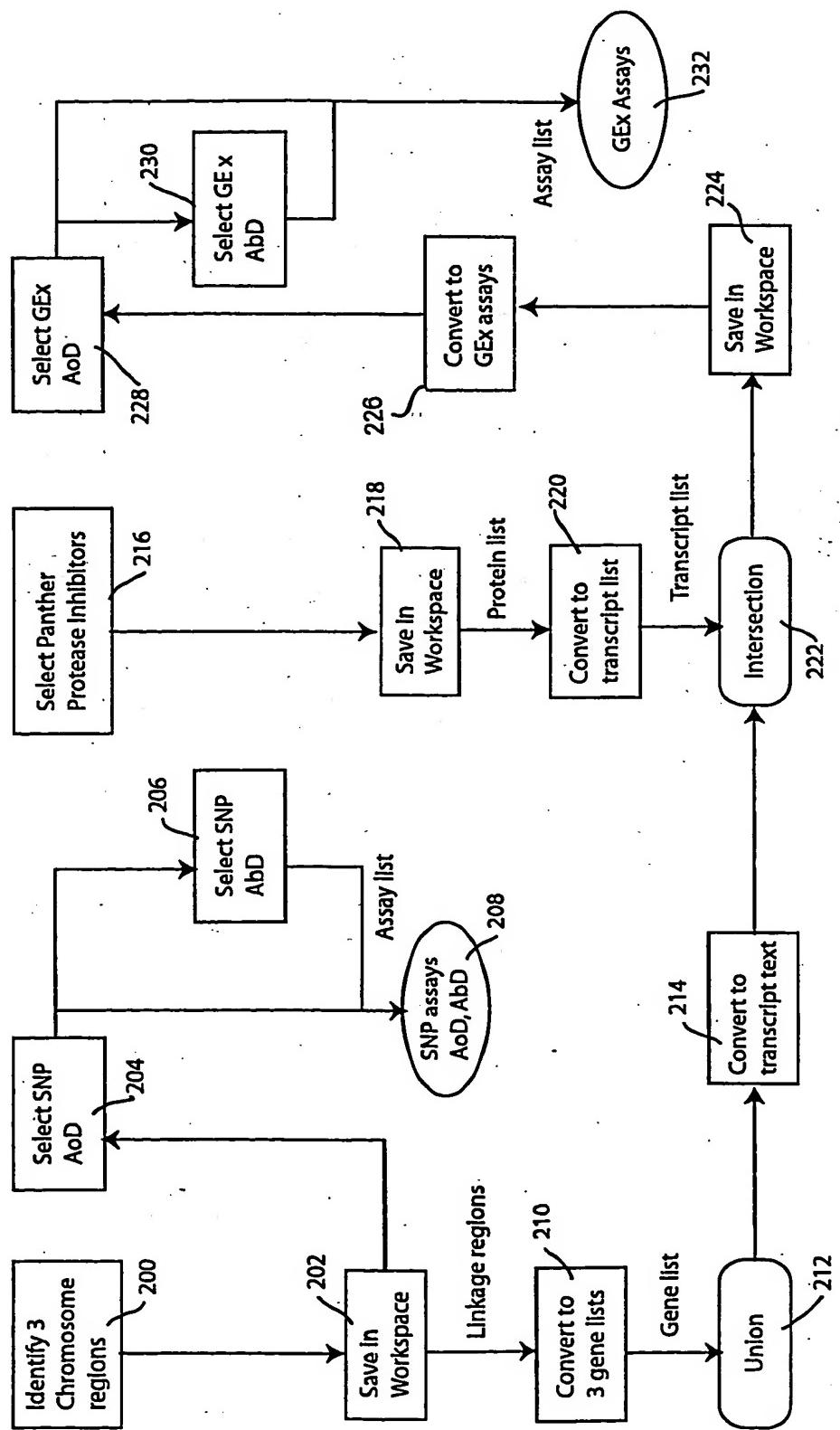


Fig. 7A

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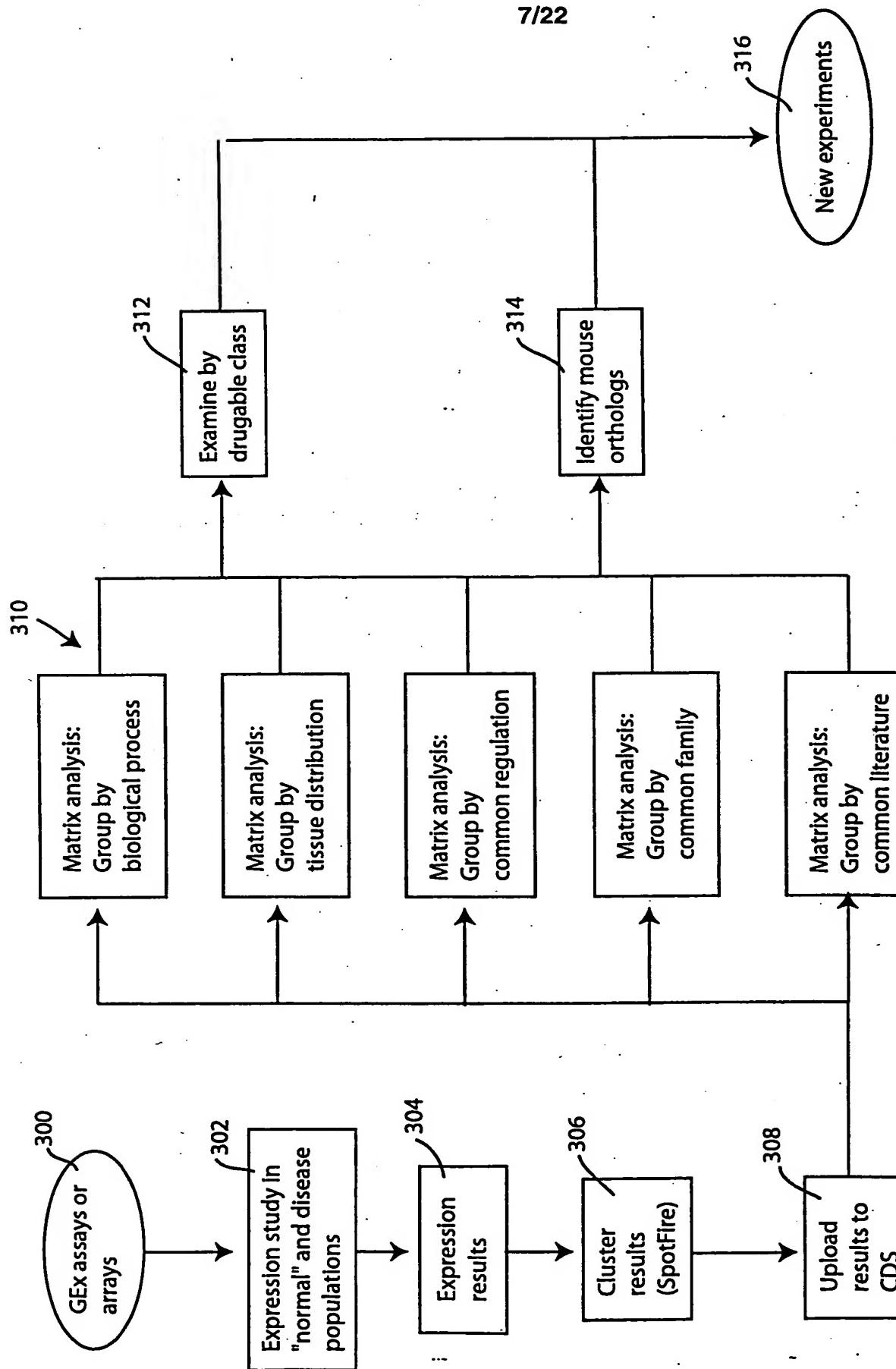


Fig. 7B

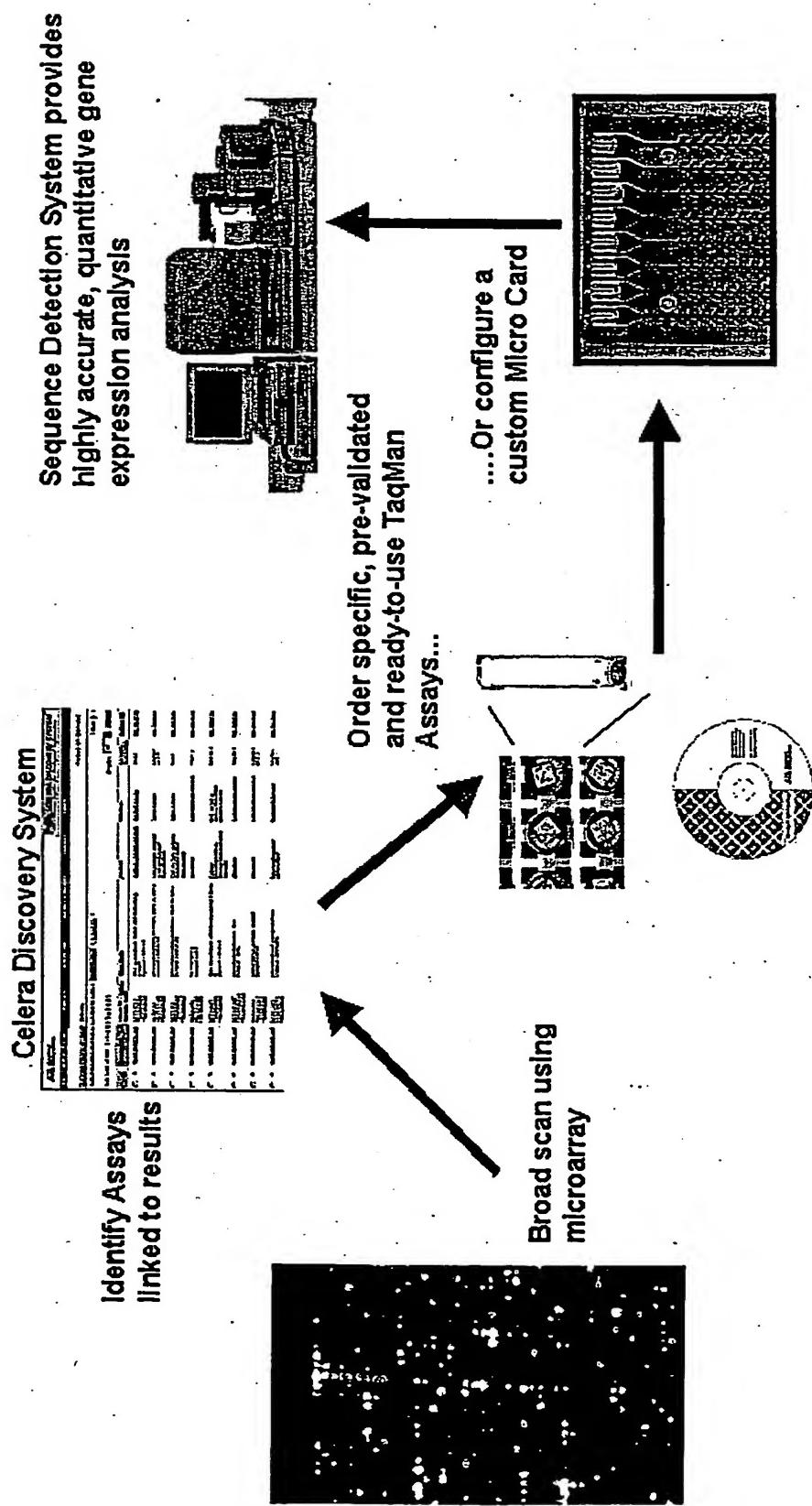


Fig. 8

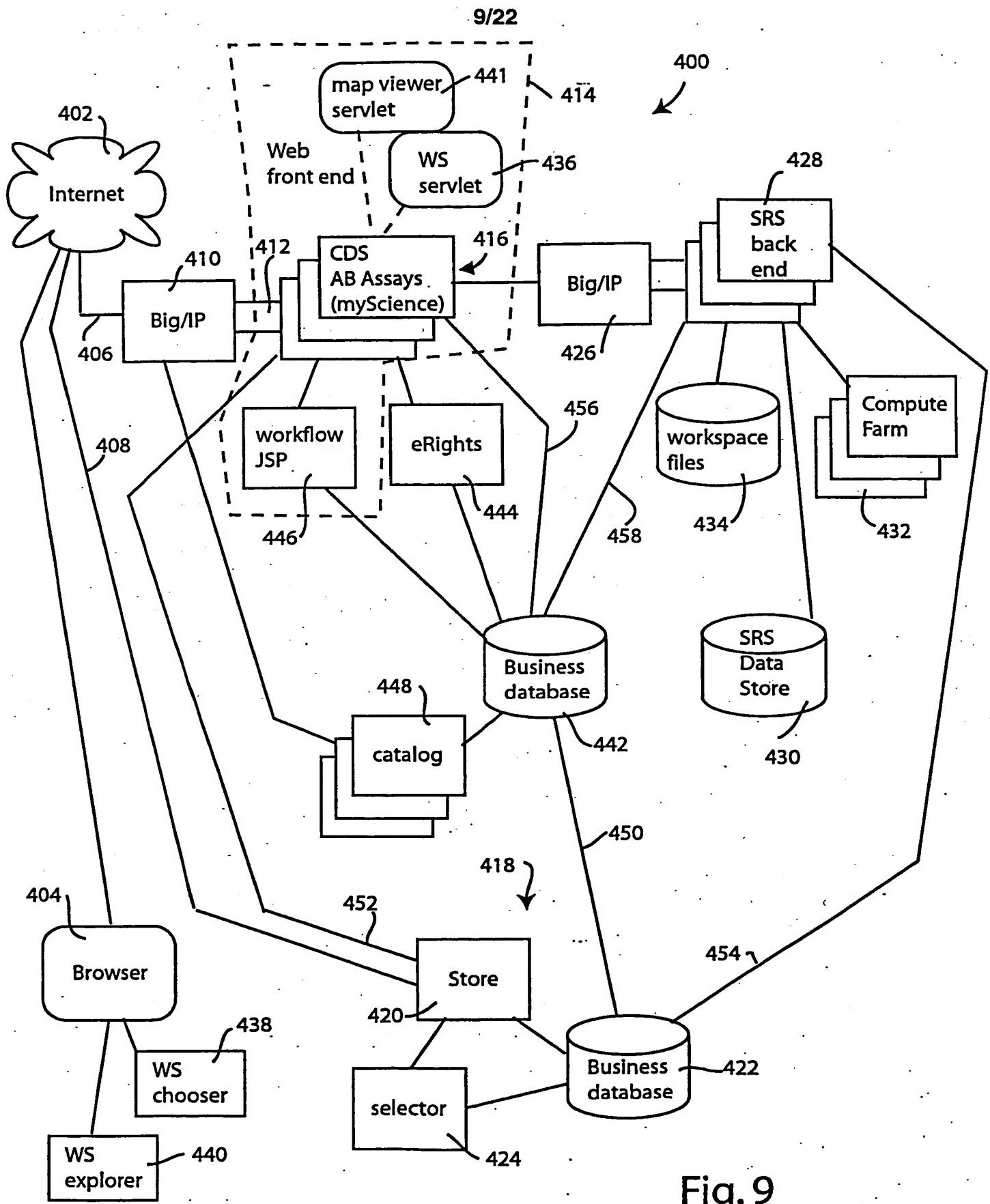


Fig. 9

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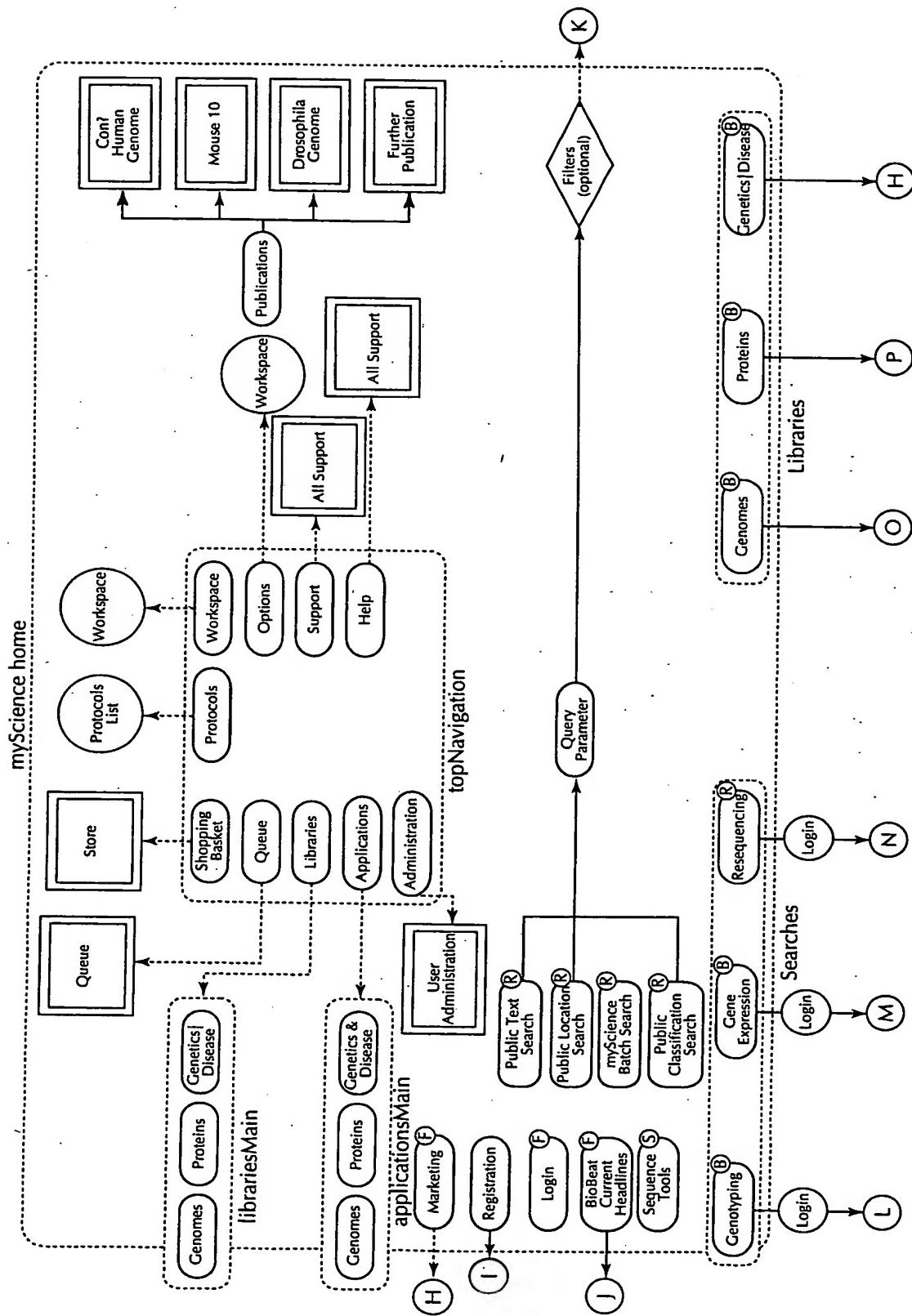


Fig-10A

Title: INFORMATION SYSTEM FOR BIOLOGICAL AND LIFE SCIENCES RESEARCH
 Serial No. 10/643,204; Atty. Ref. No. 9692-000031
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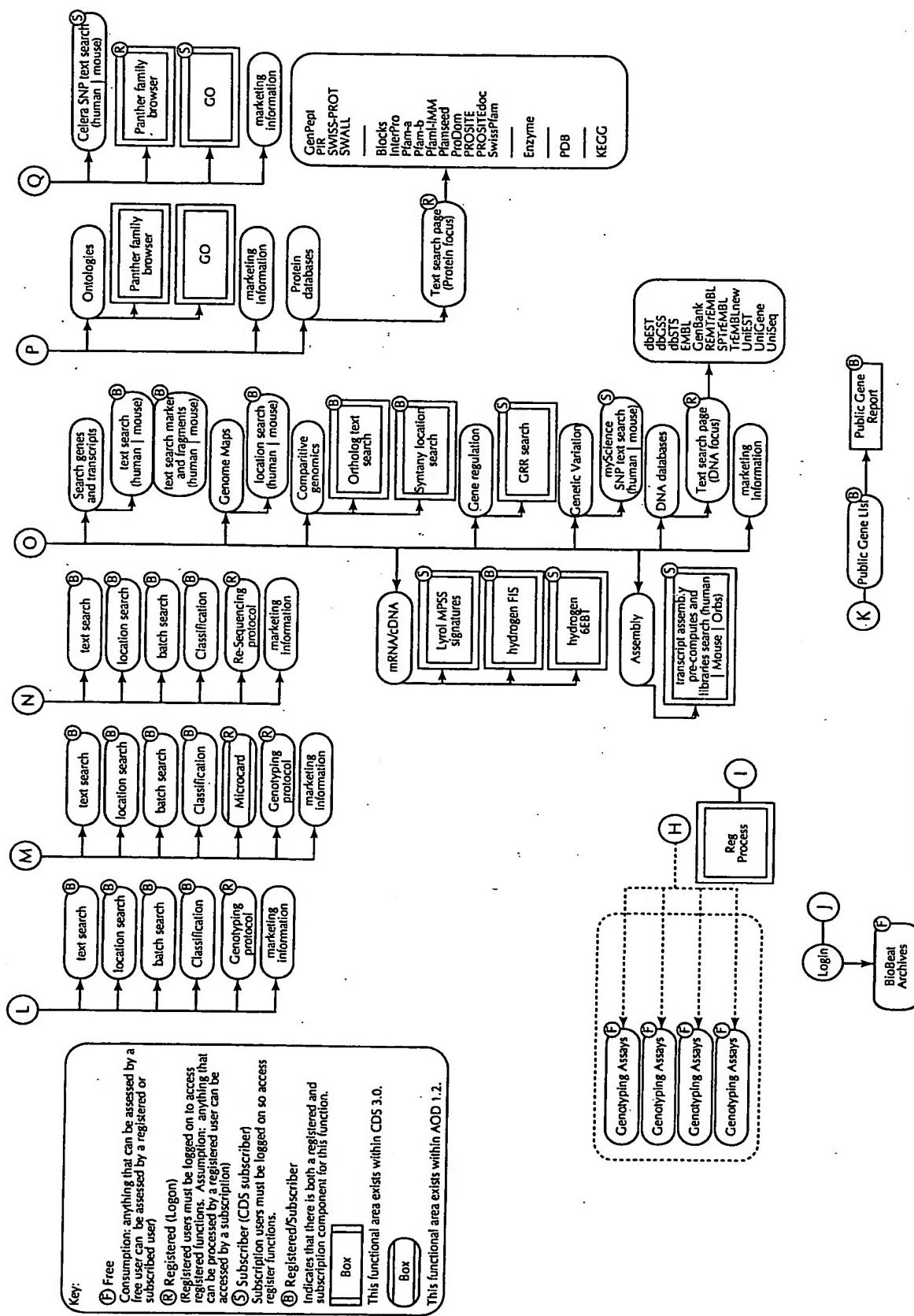


Fig-10B

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Fig. 11

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myScience
research environment

main | libraries | applications | tools | workspace

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508 CELERA DISCOVERY SYSTEM

"Tools for the life science researcher."

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502 gene search SEARCH LOCUSLINK GENES AND VIEW GENOMIC REAGENTS

Classification

Batch ID Location

Keyword Query

search by: All Text enter terms: use wildcard

choose species: H. sapiens M. musculus R. Norvegicus

search

500 genomic products SELECT REAGENTS FOR EXPERIMENTS

Genomic Products

Gene Expression

> Search Assays-on-Demand | Gene Expression Products

Create Micro Fluidic Cards

Genotyping

> Search Assays-on-Demand | SNP Genotyping Products

504

506 biobeat
ONLINE MAGAZINE

Libraries DATA COLLECTIONS

Libraries

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Fig. 12

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main | libraries | applications | tools | workspace

gene expression
BUILDING YOUR QUERY

Keyword	Batch ID	Location	Classification
Keyword Query		advanced search ? help	
search by:	<input checked="" type="checkbox"/> All Text <input type="checkbox"/> All Annotations		
enter terms:	<input type="text" value="brca1"/> <input checked="" type="checkbox"/> use wildcard		
choose species: <input checked="" type="checkbox"/> H. sapiens <input type="checkbox"/> M. musculus			
<input type="button" value="search"/>			

Options

choose set membership:

<input checked="" type="radio"/> All Assays
<input type="radio"/> ABI ITN
<input type="radio"/> MGC
<input type="radio"/> ABI Control
<input type="radio"/> Celera Unique

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Fig. 13

The screenshot shows a web-based application interface for 'myScience research environment'. At the top, there is a navigation bar with links for Home, Products & Services, myScience, and Support. On the right side of the header, there are links for ABOUT US, INVESTORS, CONTACT US, Shopping Basket, Logout Store, and My Profile.

The main content area has a left sidebar titled 'Gene Expression Assays-on-Demand™ Products' with a 'Keyword Search' section containing a 'Query:' field set to 'broad' (filters: Homo sapiens, All Assays). Below this is a table of search results:

on page	Assay ID	Public ID RefSeq Genbank mRNA	Gene Name	Gene Symbol	Function	Process	Celera ID (subscription required)	Location (cytoband)
<input type="checkbox"/> <input checked="" type="checkbox"/> all <input type="checkbox"/> circ.	1. Hs00184962_m1	5 transcripts 4 genbank mRNA Ids 510	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	BAP1	Cysteine-type protease	Proteolysis	hCG40341 • 2 transcripts	3p21.31-p21.2
<input type="checkbox"/>	2. Hs00184427_m1	2 transcripts U76638	BRCA1 associated RING domain 1	BARD1	Molecular function unclassified	Biological process unclassified	hCG14827 • hCG5848	2q34-q35,

To the right of the table, there are buttons for 'add to My Basket' (with a checked checkbox) and 'create a new basket'. Above the table, there are links for 'To order, check one or many assays and then click add to Shopping Basket.', 'Display: 100 Update', 'Export Results', 'Send To Workspace', and 'Get Gene List for Selected Assays'.

At the bottom right, there is a small L-shaped bracket icon.

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Fig. 14

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myScience research environment Shopping Basket | Logout Store | My Profile

main | libraries | applications | tools | workspace options help logout

Gene Expression Assays-on-Demand™ Products

Keyword Search > Results : Assay Details

[ Shopping Basket Email Support | Phone Support || [?Help](#)]

add to select basket or microcard ->
create a microcard | create a new basket 512

Assay ID : Hs00184962_m1 [map view](#)

Assay Alias : -

Assay Information

LocusLink Gene Name : BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
symbol : BAP1

Celera Gene ID - Gene Location : 3p21.31-
[p21.2](#)

Organism : *Homo sapiens*

Set Membership : MGC

Interrogated Sequence -

RefSeq	Translated Protein	Exon Boundary	Assay Location
NM_004656	NP_004647	Exon 3 Exon 4	243
GenBank mRNA	I Exon Boundary	I Assay Location	IMAGE Close ID
D88812	Exon 3 Exon 4	128	-
BC001596	Exon 3 Exon 4	243	3543914
D87462	Exon 3 Exon 4	252	-
AF045581	Exon 3 Exon 4	167	-
Celera	I Translated Protein		
bCT2283633	hCP1803095		
bCT31597	hCP51928		

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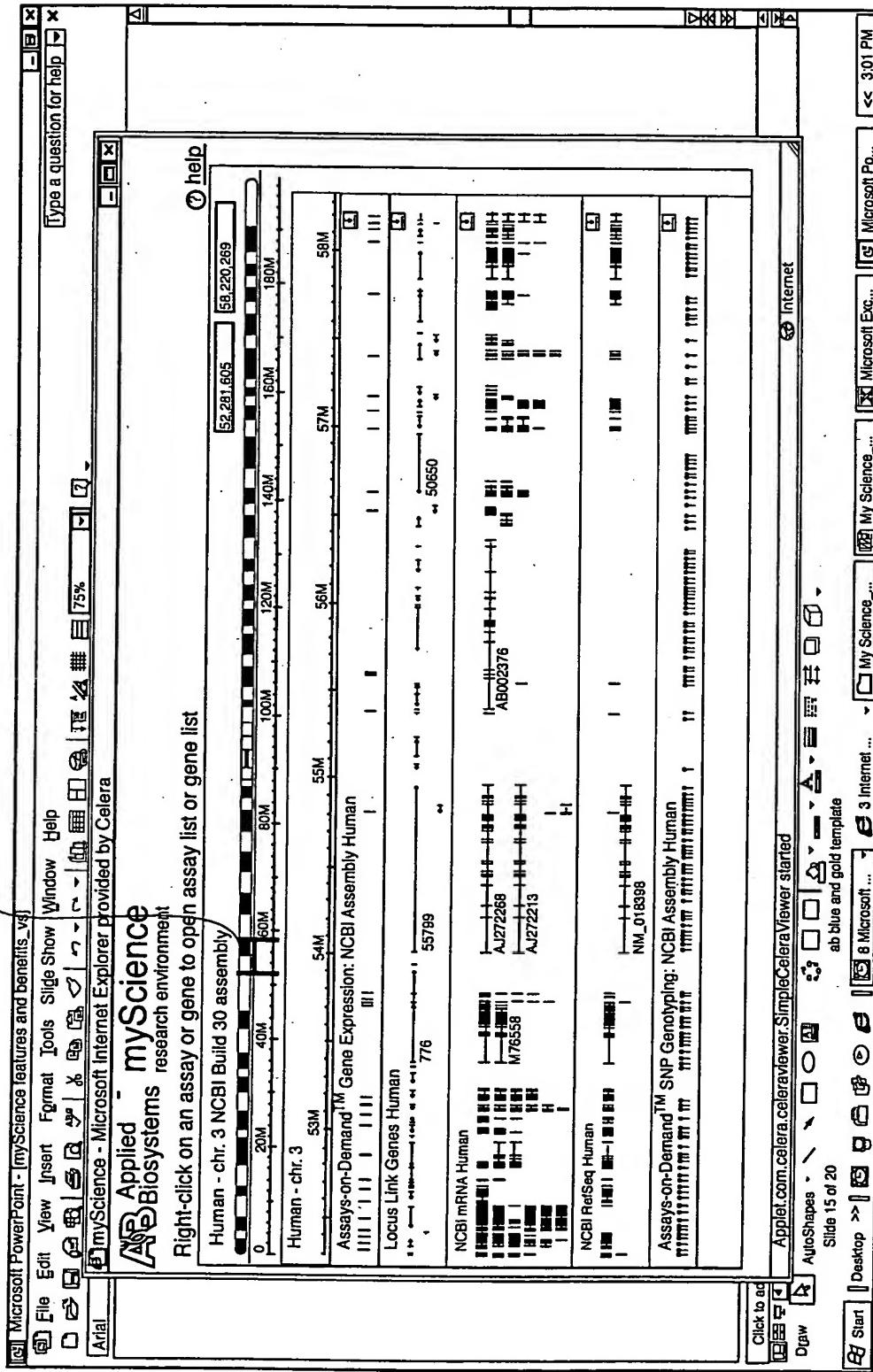


Fig. 15

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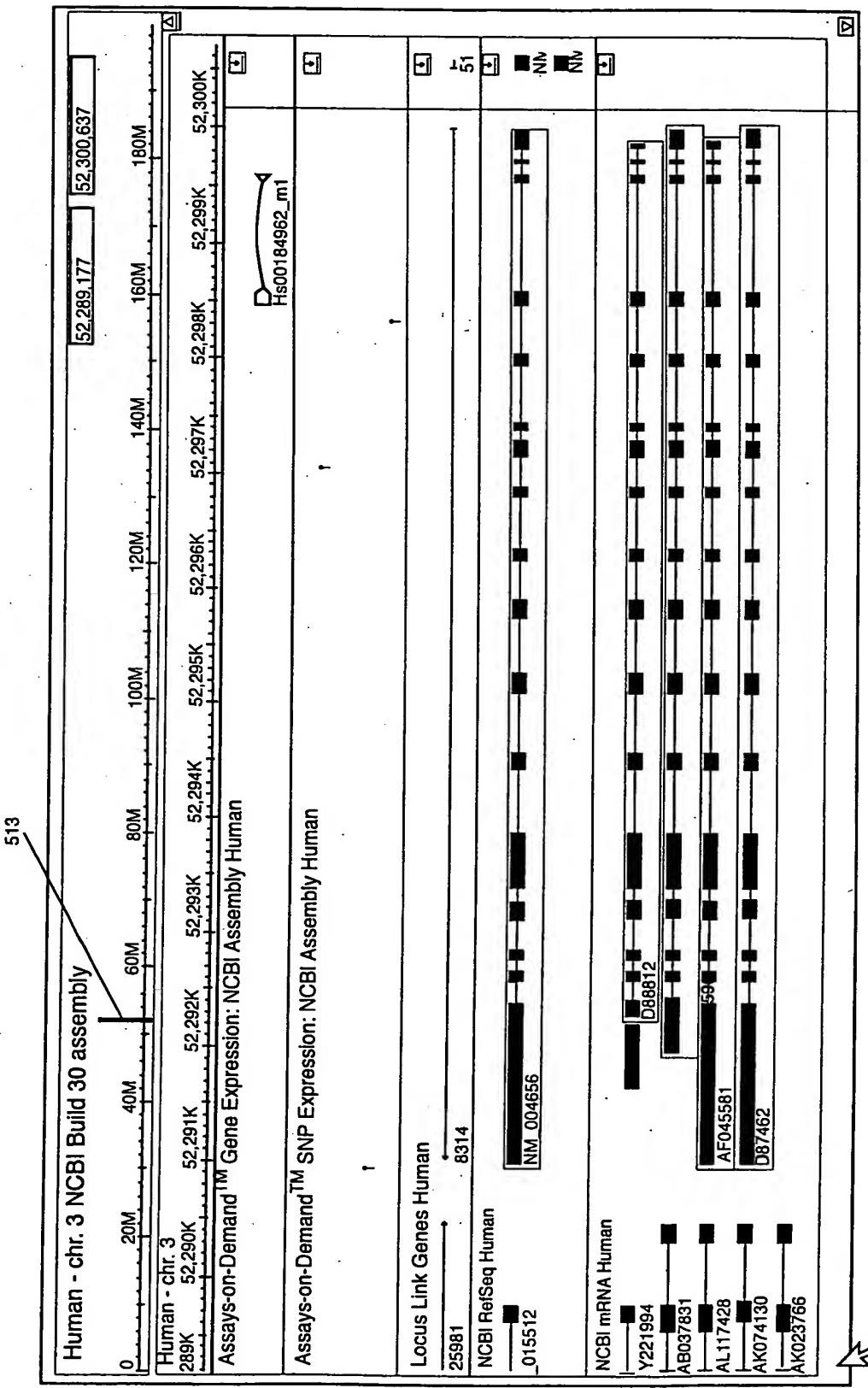


Fig. 16

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Gene Expression Assays-on-Demand™ Products

Keyword Search : Results

Query : "brca1" [filters: Homo_sapiens, All Assays]

To order, check one or many assays and then click add to Shopping Basket.

Display: 100 [Update] Export Results Send To Workspace Get Gene List for Selected Assays

Hits 1-6 of 6 [page: (1)]

on page	Assay ID	Public ID RefSeq Genbank mRNA	Gene Name	Gene Symbol	Function	Process	Celera ID (subscription required)	Location (cytoband)
<input type="checkbox"/> <input checked="" type="checkbox"/> [all]	Hs00184962_m1	5 transcripts 1 genbank mRNA Ids	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	BAP1	Cysteine-type protease	Proteolysis	hCG40341 •2 transcripts	3p21.31-p21.2,
<input type="checkbox"/>	Hs001849427_m1	2 transcripts U76638	BRCA1 associated RING domain 1	BARD1	Molecular function unclassified	Biological process	hCG14827 •hCT5848	2q34-q35,

514. Shopping Basket
[add to] My Basket
create a microcard create a new basket

Fig. 17

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All Group</td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">Hs00184427_m1,AllCat,AllGrp,BARD1 [Details]</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;">Hs00184427_m1</td> <td style="padding: 2px; text-align: center;">1</td> <td style="padding: 2px;">USD 280.00</td> <td style="padding: 2px;">USD 280.00</td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">Estimated Ship Date: n/a Requested Ship Date: <input type="text" value="07/01/2003"/> <input type="button" value="16"/></td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">2. All Group</td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">Hs00184962_m1,AllCat,AllGrp,BAP1 [Details]</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;">Hs00184962_m1</td> <td style="padding: 2px; text-align: center;">1</td> <td style="padding: 2px;">USD 280.00</td> <td style="padding: 2px;">USD 280.00</td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">Estimated Ship Date: n/a Requested Ship Date: <input type="text" value="07/01/2003"/> <input type="button" value="16"/></td> </tr> <tr> <td colspan="5" style="border-bottom: 1px solid black; padding: 2px;">3. 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Applied Biosystems will pay your freight for consumable products if their subtotal is greater than \$50,000 USD.</p>	Check to Delete	Product Number	Qty	Product List Price	Your Extended Price	1. All Group					Hs00184427_m1,AllCat,AllGrp,BARD1 [Details]					<input type="checkbox"/>	Hs00184427_m1	1	USD 280.00	USD 280.00	Estimated Ship Date: n/a Requested Ship Date: <input type="text" value="07/01/2003"/> <input type="button" value="16"/>					2. All Group					Hs00184962_m1,AllCat,AllGrp,BAP1 [Details]					<input type="checkbox"/>	Hs00184962_m1	1	USD 280.00	USD 280.00	Estimated Ship Date: n/a Requested Ship Date: <input type="text" value="07/01/2003"/> <input type="button" value="16"/>					3. All Group					Hs00184962_m1,AllCat,AllGrp,BAP1 [Details]					<input type="checkbox"/>	Hs00184962_m1	1	USD 280.00	USD 280.00	Estimated Ship Date: n/a Requested Ship Date: <input type="text" value="07/01/2003"/> <input type="button" value="16"/>					<table border="1" style="margin-left: auto; margin-right: 0;"> <tr> <td style="padding: 2px;">Subtotal:</td> <td style="padding: 2px;">USD 840.00</td> </tr> <tr> <td style="padding: 2px;">Freight:</td> <td style="padding: 2px;">-</td> </tr> <tr> <td style="padding: 2px;">Tax:</td> <td style="padding: 2px;">USD 0.00</td> </tr> <tr> <td colspan="2" style="padding: 2px; text-align: right;">USD 840.00</td> </tr> </table>					Subtotal:	USD 840.00	Freight:	-	Tax:	USD 0.00	USD 840.00	
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Fig. 18

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Fig. 19

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Keyword Search : Results
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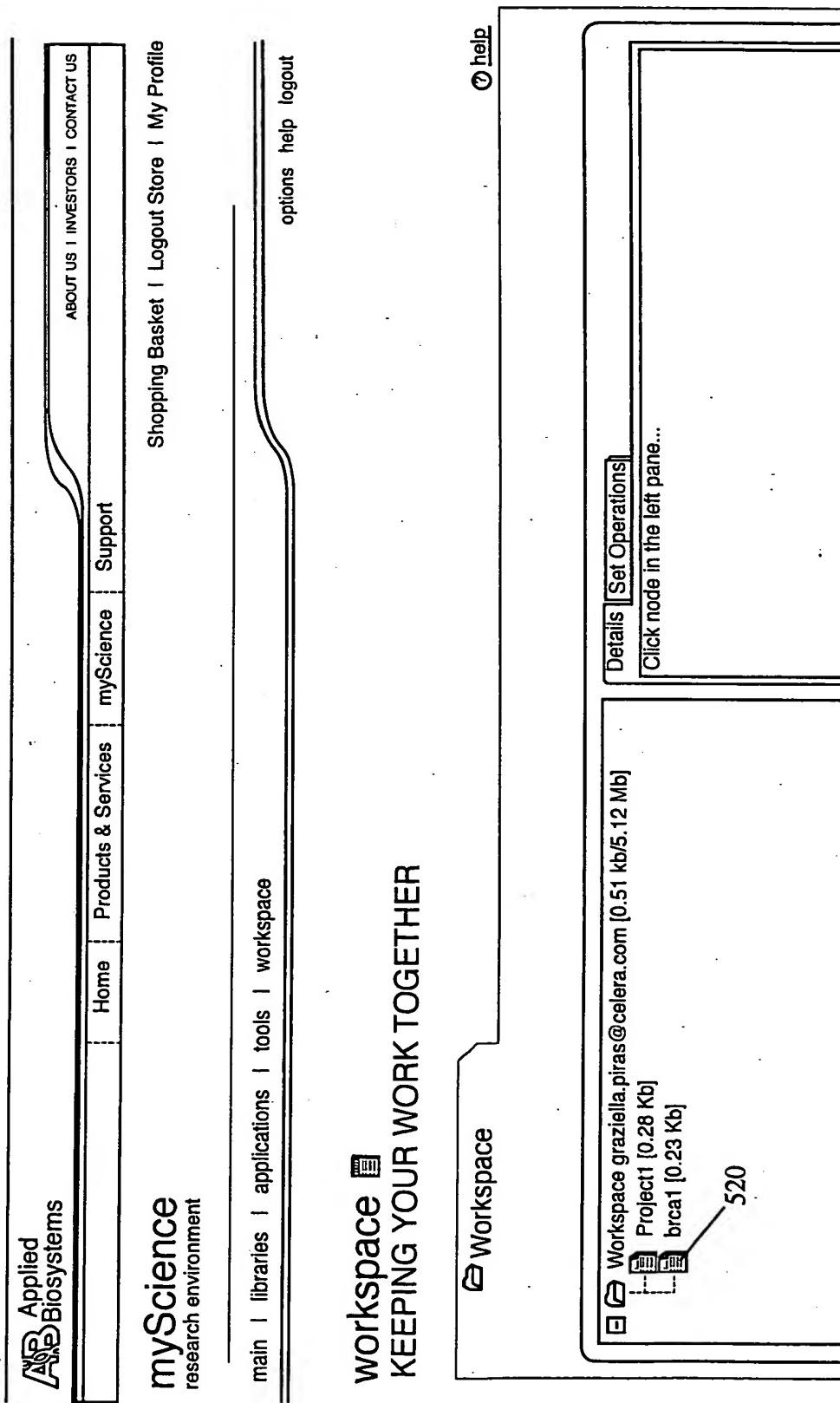
Display: [100] [Update] Export Results Send To Workspace Get Gene List for Selected Assays

Hits 1-6 of 6 (page: (1))

on page	Assay ID	Public ID RefSeq	Gene Name	Gene Symbol	Function	Process	Celera ID (subscription required)	Location (cytoband)
<input type="checkbox"/> [all] [clr]	1. Hs00184962_m1	5 transcripts 4 genbank mRNA Ids	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	BAP1	Cysteine-lysine protease	hCG40341 •2 transcripts	3p21.31-p21.2	
<input type="checkbox"/>	2. Hs0018442Z_m1	2 transcripts 176638	BRCA1 associated RING domain 1	BARD1	Molecular function unclassified	hCG14827 •HCT5848	2q34-q35,	

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Fig. 20



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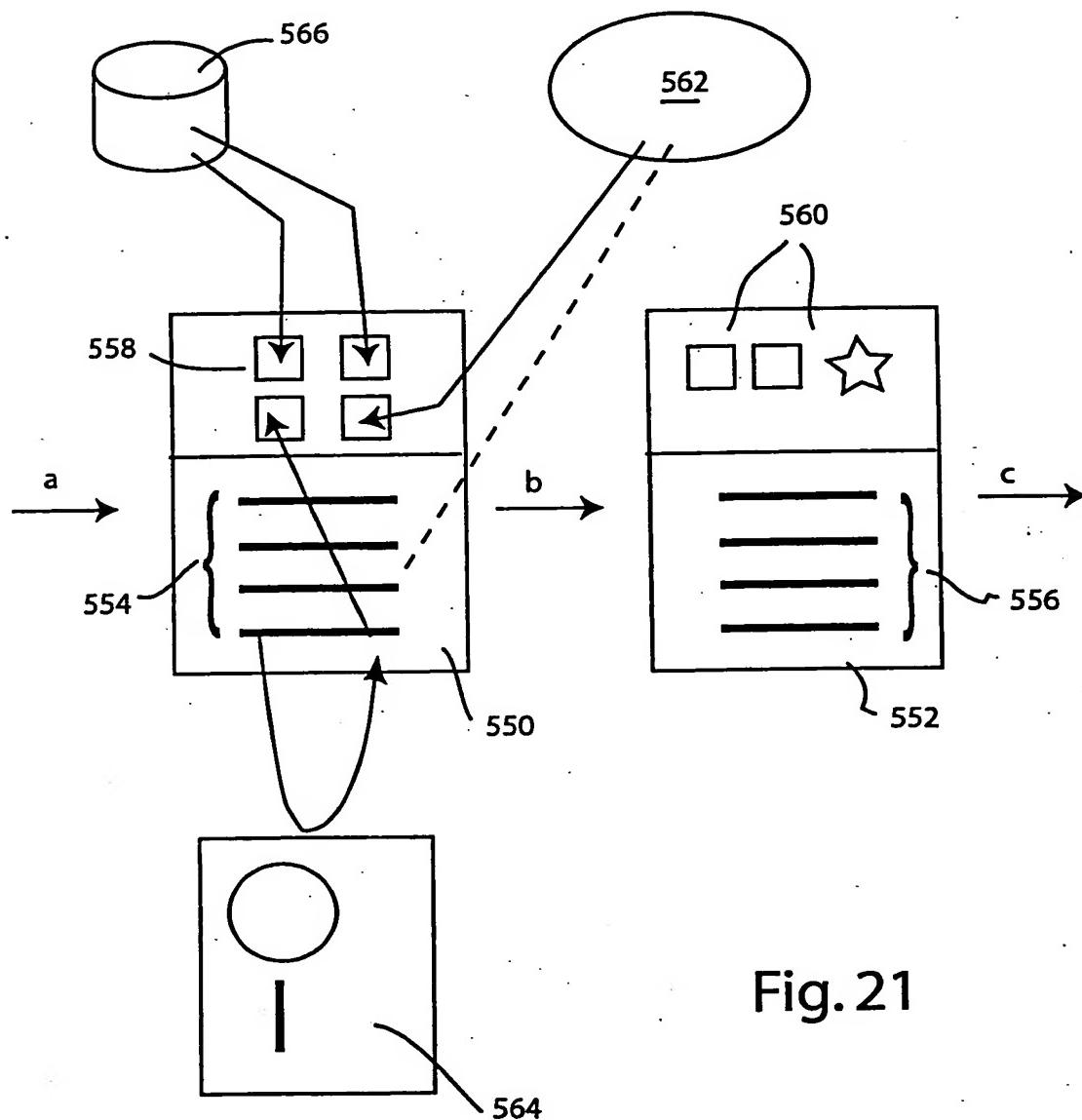


Fig. 21